

ABSTRACT

5 The liquid crystal display apparatus according to
the present invention includes a) the direction of the
twist angle of molecule orientation of the twisted phase
difference board (3) is reverse to the direction of the
twisted orientation of the liquid crystal molecule of the
liquid crystal devices (2), and the twist angle of the
twisted phase difference board is smaller than the twist
10 angle of the liquid crystal devices (2) by 10° to 40° ; b)
an angle between the liquid crystal molecule-oriented
direction of the alignment film (23a) of the second
substrate and the molecule-oriented direction of a lower
polymer (32b) of the liquid crystal polymer layer lies in
15 the range of 80° to 90° ; c) an angle between an
absorption axis of the first polarization board (1) and
the liquid crystal molecule-oriented direction of the
alignment film (23b) of the first substrate side lies in
the range of 50° to 60° ; d) an angle between the
20 absorption axis of the second polarization board (4) and
the molecule-oriented direction of an upper polymer (32a)
of the liquid crystal polymer lies in the range of 30° to
 40° ; and e) the relationship between Δn_1 of the nematic
liquid crystal layer and Δn_2 of the liquid crystal
25 polymer layer is defined in a particular relationship, so
that it is possible to resolve colored image on the
display and to realize an image quality having a high
contrast.